



Career and Technical Education 2026-27 Catalog

Learn more about GST BOCES CTE Programs at www.gstboces.org



GST BOCES

Portrait of a Learner Characteristics:

- *Community Oriented*
- *Knowledgeable*
- *Proud to be GST*
- *Prepared*
- *Problem-Solver*
- *Determined*

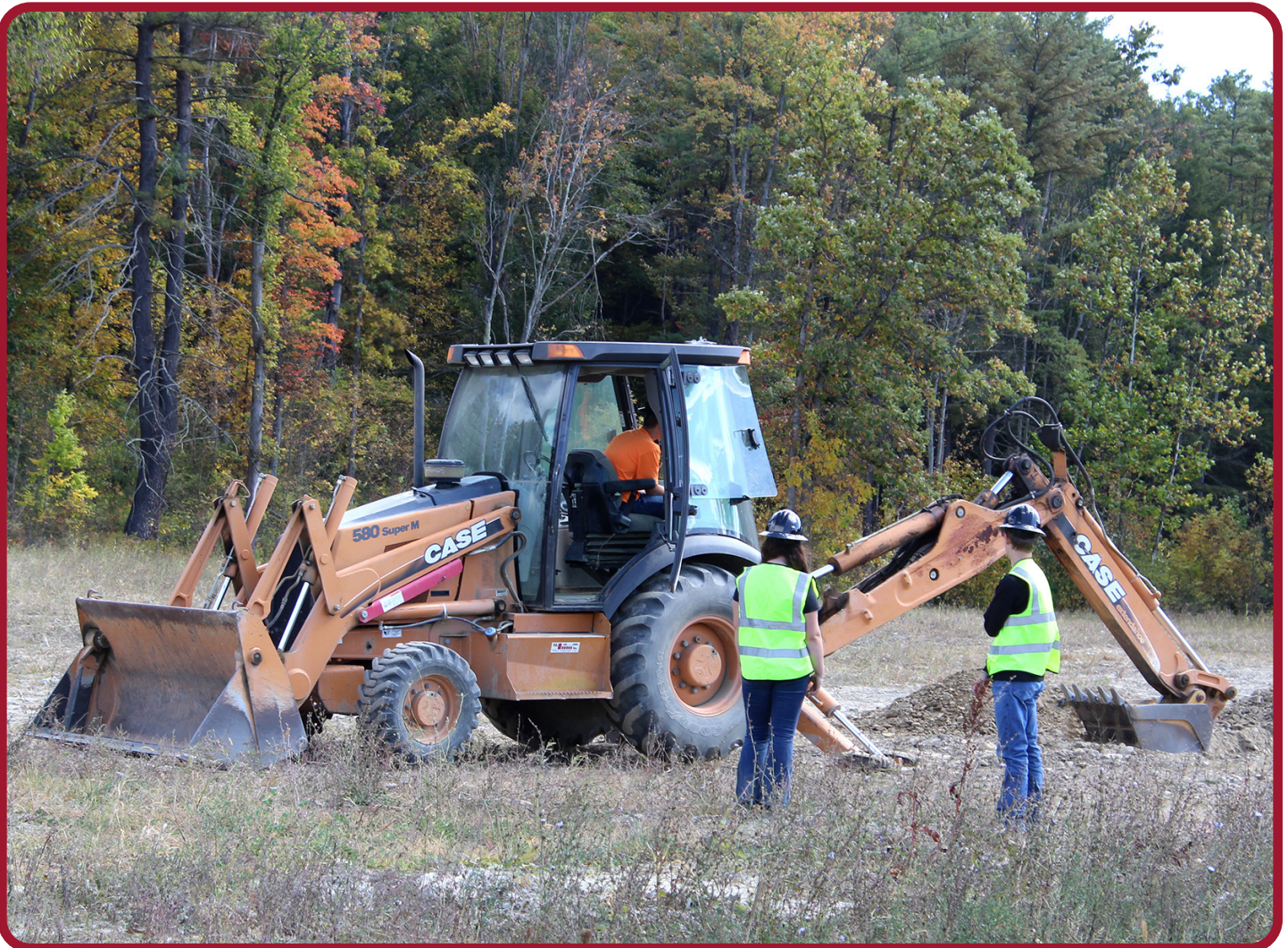


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Key

B: Bush Campus, Elmira
C: Coopers Campus, Painted Post
W: Wildwood Campus, Hornell

Your future and financial destiny are not a matter of chance. They are a matter of choice. Whether you choose college, the military or work, the CTE Program is the starting point on your path to success.

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Our programs are developed based on present and future needs in the job market, so our students are in demand when they enter the workforce. To find out about the fastest growing careers, check out the Department of Labor's website at www.labor.state.ny.us.

It is no secret that finding a job is tough, and deciding on a career is even tougher. The Career and Technical Education (CTE) Program gives you a chance to explore and experience careers in a setting that closely resembles a real-world workplace.

If you are entering the workforce immediately after high school, the CTE Program gives you the competitive edge you need to show potential employers that you are the best candidate for the job.

Students heading to college or technical school benefit from the CTE Program too. Hands-on experience raises your understanding beyond the level of textbook theory and gives you a practical advantage in the college classroom or laboratory.

This catalog is full of information about all CTE courses. Call us at (607) 739-3581, or talk to your home school counselor today to find out more. You also can visit our website at www.gstboces.org.



Answers to frequently asked questions about the CTE Program

What is the CTE Program?

The Career and Technical Education (CTE) Program offers high school students and adults the opportunity to learn job skills through instruction and hands-on experience. Students can use these skills to start a career right after high school or as preparation for college or the military.

Who attends the CTE Program?

Students attend CTE Programs at Bush, Coopers and Wildwood Campuses from Addison, Alfred-Almond, Arkport, Avoca, Bath, Bradford, Campbell-Savona, Canaseraga, Canisteo-Greenwood, Corning-Painted Post, Elmira, Elmira Heights, Hammondsport, Hornell, Horseheads, Jasper-Troupsburg, Odessa-Montour, Prattsburgh, Spencer-Van Etten, Watkins Glen, Waverly and private high schools.

What is a typical day like?

Most high school students spend half of every school day in a CTE Program and the remainder at their home school. CTE Programs are offered in the morning (typically seniors) and the afternoon (typically juniors).

How do I apply?

It is easy. See your school counselor and ask for information about the CTE Program. Your counselor can answer any questions you may have, or you can call GST BOCES at 607-739-3581 and follow the prompts for the appropriate campus (Bush, Coopers or Wildwood) to speak with a counselor.

May I visit the campus before applying?

Of course! You are encouraged to visit. You can sit in on a class or tour the campus during school hours.

See your school counselor for more information. You need to discuss and coordinate visits with your parents, teachers and home school counselor.

How can Career and Technical Education help me meet graduation requirements?

Students may earn as many as eight credits toward graduation upon the successful completion of an approved two-year CTE Program. Up to three of these credits may be an academic unit of credit in English, mathematics and science, depending upon the CTE Program they are enrolled in.

Students also may work toward earning their Career Development and Occupational Studies (CDOS) commencement credential.

What is the CTE Technical Endorsement?

A CTE Technical Endorsement seal signifies “added value” on your high school diploma. It demonstrates you have excelled in a challenging program that meets both academic and current business/industry standards.

Students who are graduating with either a Regents or local diploma who pass their CTE Program, pass a National Technical Assessment and complete a successful work experience will be eligible to receive a CTE Technical Endorsement seal on their high school diploma.

What about high school activities and transportation?

You can still participate in home school activities such as athletics, clubs, chorus or band, as well as the following CTE Program student organizations:

- SkillsUSA
- Health Occupations Students of America (HOSA)
- FFA (Bush and Coopers Campus)
- Family, Career and Community Leaders of America (FCCLA) (Bush Campus)
- National Technical Honor Society (NTHS)

Bus transportation to and from the CTE campus is provided by your home school district.

What if I am going to college?

If you are planning to attend college, you may be somewhat puzzled as to how the CTE Program will fit into your plans. Be assured you will actually get a jump-start on your college education, especially if you plan to attend one of the schools with which we have an articulation agreement.

In the CTE Program, you will not only gain experience in the career you choose, you also may receive college credit and gain knowledge that will enhance your understanding in college courses. Successful CTE Program graduates may even receive advanced placement through articulation agreements with many colleges.

What is an articulation agreement?

There are agreements for our CTE courses with many community colleges, technical schools and universities that allow students opportunities for advanced placement and college credit accumulation upon successful graduation from our programs. At the bottom of each course description, you will see a list of institutions with which the CTE Program has articulation agreements.

What kinds of real-life work experience can I get in the CTE Program?

As a CTE Program student, you will have extensive opportunities for work-based learning experiences to help you make informed choices about your future. Students in the CTE Program may complete internships in real work settings and also may participate in a cooperative work experience during the summer.

You also will have the opportunity to volunteer in the community, set up businesses within classes and take field trips to job sites, colleges and technical schools.

Student Enrollment Guide

The purpose of this information is to help school counselors and CSE chairs match the educational needs of interested students with the appropriate GST BOCES CTE Program course in order to ensure a successful educational outcome.

Criteria for Student Enrollment

The goal of this guide is to streamline the intake process for all potential CTE Program students and meet the needs of students by matching them with appropriate programs.

(NOTE: No enrollments will be processed until all required records have been received. The registrar (campus secretary) will notify home schools if an online enrollment is incomplete.)

The Initial Steps

1. The home school will identify the educational needs of the student interested in a CTE program.
2. Questions or concerns about student placement can be directed to:
 - Bush Campus – 607-739-3581, ext. 7001760
Maria Torres – School Counselor
 - Coopers Campus – 607-654-2213, ext. 7002213
Stephanie Welch – School Counselor
 - Wildwood Campus – 607-281-3104, ext. 7003104
Jennifer Gallicchio – School Counselor
3. If necessary, the CTE Program counselor will schedule a conference with appropriate district personnel to review the student's information and records.
4. BOCES staff will work collaboratively with the home school representatives and parents to determine placement and start dates for new students.

Step One

When the decision is made to send a student to a CTE Program, the online application form with the following information uploaded must be completed for the application to be considered ready for review:

1. Student transcript
2. Current report card/grades
3. Attendance records
4. Standardized testing information, including state exams, Regents and TABE results, if available
5. Health records
6. Discipline records
7. 504 Plan, if applicable
8. Current IEP and psychological report, if applicable

The application website is <https://apply.gstboces.org/CTE/>

Step Two

Throughout the enrollment process, the focus will be on placing the student in an environment where he or she will achieve success in a safe, friendly learning environment. The home school and CTE staff will discuss various options appropriate for each student.

Step Three

The deadline for student enrollment for CTE Programs (for high school juniors and seniors) is **Friday, May 1, 2026**. Career Connections program enrollment is an ongoing process. Exceptions and special circumstances are understandable and the CTE Program administrators will work with home schools in these instances.

Continuing Communications

1. The home school and CTE administration will discuss students' records, as appropriate, on an ongoing basis throughout the school year.
2. If the home district is considering a CSE referral, a counselor should contact the respective BOCES campus to exchange information and discuss additional strategies that might be used with a particular student.



Animal Science (CIP-510808)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

The Animal Science program prepares students for a wide range of careers associated with animal science. Students will study anatomy, physiology, breed identification, handling, restraints, health and disease, nutrition, behavior, reproduction and management of small animals.

Students in the program at the Bush campus also will have experience working with large animals. This program is designed for students who want to pursue a career working with animals, with course work tailored to the interests of the students.



Course Content:

- Proper Care of Animals – Handling, Restraining, Cleaning and Feeding
- Basic Grooming Procedures
- Exotic Animal Husbandry
- Anatomy and Physiology
- Parasitology and Diseases
- Office Management/Lab Techniques
- Pet First Aid and CPR
- Leadership/Future Farmers of America (FFA)

Pre-requisite:

Student must have completed and passed the Regents-level Living Environment/Biology course.

Program Considerations:

Students must:

- Be able to communicate verbally and in writing
- Have reading and comprehension skills at the commencement level
- Strong interest in science curriculum
- Be able to lift a minimum of 25 pounds

- Be able to behave safely around various animals, as well as sharp and hazardous items
- Be able to deal with animal waste disposal and the cleaning of soiled cages

Post-Secondary Fields of Study:

Veterinary Technician • Veterinarian • Animal Industry
Animal Behaviorist • Animal Science

Employers Who Have Hired CTE Program Students:

Agape Veterinary Clinic • All Ears Veterinary Clinic
Chemung Valley Veterinary Clinic • Dansville Animal Hospital
PetSmart • Sondra's City Zoo

Articulation Agreements With:

SUNY Alfred State College • SUNY Canton • SUNY Cobleskill • SUNY Delhi

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Specialized Math (1 credit)

Continued

Audio Media Design (CIP-090402)

CO-SER: Bush 101.200

Audio Media Design gives students hands-on instruction in the basic field of audio and video production. This course includes the operational and electronic characteristics of pre-production, production and post-production sound and video for all media. Students will learn about the wide array of audio and video equipment, microphones and latest video and audio editing software technology that will help them prepare for a career in the audio media industry.

Students will create and produce radio/television commercials, newscasts and dramas, while at the same time learning how to operate and maintain the latest audio and video equipment. This course allows the student to choose from a wide career path that may include becoming a sound engineer or radio production specialist, working in television or as a video editor.



Course Content:

- Audio Engineer
- Microphones
- Multi-Media Audio Presentations
- Video Audio
- Digital Audio
- Digital Audio Production
- On Location or Live Event Audio Design
- Pro Tools
- Adobe Premiere
- Script Writing
- Video Camera Basics
- Newscast

Program Considerations:

Students must:

- Be able to communicate verbally and in writing
- Be able to process basic math computations (8th grade)
- Be able to get along with peers and adults and work in a team atmosphere

Post-Secondary Fields of Study:

- Two- to Four-year Recording Arts degree
- Two-year Mass Communication/Broadcasting degree
- Four-year Mass Communication/Broadcasting degree

Employers Who Have Hired CTE Program Students:

- Equinox Broadcasting • Clemens Center • Corning Museum of Glass
- Electric Wilburland Recording Studios • Hard Hit Productions
- Seven Mountains Media

Articulation Agreements With:

- SUNY Broome Community College • SUNY Herkimer Community College

Integrated Academic Credits (over two years):

- English (1 credit) • Science (1 credit)

Automotive Technology (CIP-470604)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

Our Automotive Technology course offers experience in all areas of automotive repair, from periodic maintenance service to engine replacement. Students will be exposed to diagnostic equipment comparable to that used in the automotive service industry.

Coursework includes maintenance, suspension, steering, brakes, New York State inspection regulations and procedures, engine repair, drive line service, fuel system, auto electrical systems, ignition systems, computer system operation (OBDII) and troubleshooting, 4-wheel alignment, and cooling system service. Participants also will be exposed to oxyacetylene torch operation, MIG welding procedures and tire equipment and automotive lift safety and operation. Students can earn 10 student-level Automotive Service Excellence (ASE) certifications.



Course Content:

- Maintenance Service/Suspension, Steering, Brakes
- Engines/Drive Lines & Transmission Service
- NYS Inspection/Basic Electrical Systems/Fuel Systems
- Auto Electrical Service & Driveability/Fuel Systems & Engine Problem Diagnosis

Program Considerations:

Students must:

- Be able to communicate verbally and in writing, and have reading and comprehension skills at commencement level
- Be able to process commencement-level math computations
- Behave safely around dangerous chemicals, gases and moving equipment
- Be willing to serve people from the community courteously
- Be able to lift 25 pounds

Post-Secondary Fields of Study:

Nine-twelve month certificate
Two-year degree in Automotive Service
Two-year degree in Automotive Parts Management
Two-year degree in High Performance
Four-year degree in Automotive/Business Management

Employers Who Have Hired CTE Program Students:

Advance Auto Parts • All Season Tire • Arkport Cycle • Auto Zone
Buckley's Automotive • Carquest Auto Parts • Chilson Wilcox
Cook Brothers Supply • Corning Inc. • DC Auto Service • Elm Chevrolet
Ferrario Dealership • Firestone • Fleet Pride • Foote's • Fox Auto Group
J and T Auto Cafe • Maple City Collision • Maple City Dodge
Napa Auto Parts • NASCAR • Parmenter Inc. • S & S Alignment
Simmons Rockwell Dealerships • Synthes • Van Wormers
Williams Dealership

Articulation Agreements With:

Lincoln Technical Institute • Ohio Technical College
SUNY Alfred State College • SUNY Canton • SUNY Delhi
SUNY Morrisville • Universal Technical Institute
University of Northwestern Ohio

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Specialized Math (1 credit)

Building Construction (CIP-460201)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

Building Construction students will have the opportunity to acquire skills in the safe operation of a variety of power and hand woodworking tools and machines, building site layout, various types of framing procedures and techniques, foundations and forms, simple stair construction, window and door installation, thermal and moisture protection, siding application, roofing, interior finishing, basic wiring, plumbing, brick and block laying, blueprint reading and basic cabinet installation. This course encompasses all processes of house construction.

Additionally, students may have the opportunity to assist in the construction of a full-sized ranch-style house.

The Building Construction program uses the Career Connections Curriculum from the Carpenter's Union. Students will be required to take standardized exams in order to earn certification. Successful students will have the opportunity to earn Union Certification Card and have advanced placement in the Regional Council of Carpenters with instructor recommendation.



Course Content:

- Material Estimates
- Electrical
- Plumbing
- Masonry
- Framing
- Interior Finish & Basic Cabinet-Making
- Exterior Finish & Trim
- Roof Framing & Finish

Program Considerations:

Students must:

- Possess good oral and written communication skills
- Be able to process basic math calculations including algebra and geometry
- Have good eye/hand coordination and sense of balance
- Be able to lift a minimum of 40 pounds
- Behave safely around power tools, on roofs/scaffolding and around potentially flammable compounds

Post-Secondary Fields of Study:

Two-year degree in Construction Technology or Wood Technology
Four-year degree in Construction Technology

Employers Who Have Hired CTE Program Students:

Campbell Building Supply • Carpenters Union • Chapel Lumber
Corning Building Company • DC Solar • Doane Builders • Jeff Janeski
Keuka Construction • Klugo Construction • Land Construction
Mills Electric • Newcomer Remodeling • Pfaff & Son
Regional Council of Carpenters • Sheet Metal Workers Union
Silverline Construction • TRW Construction • TTCI • Will Wood Construction

Articulation Agreements With:

SUNY Alfred State College • SUNY Delhi • Penn Tech

Integrated Academic Credits (over two years):

English (1 credit) • Specialized Science (1 credit)
Specialized Math (1 credit)

Cisco Networking Academy (CIP-110901)

IT Helpdesk, Cybersecurity, Operating Systems and Server Networking

CO-SER: Coopers 101.100, Wildwood 101.300

Step into the future of technology with this comprehensive program designed to forge the next generation of IT professionals. In a world where every connection is a potential vulnerability, this course provides the professional skills to protect and innovate. Leveraging the world-class Cisco Networking Academy platform, students will embark on a journey from mastering the fundamentals of modern computer systems to defending complex networks against sophisticated cyber threats. The curriculum is strategically aligned with Industry-Recognized Certifications, preparing students to earn their CompTIA A+ and Cisco Certified Support Technician (CCST) Cybersecurity credentials before graduation. Beyond defense, students will explore the revolutionary world of Artificial Intelligence (AI), learning how AI is used to power threat detection and how to secure the intelligent systems of the future. Through hands-on labs, network simulations using Cisco Packet Tracer, and self-guided projects, students will gain the practical experience needed to launch a successful career as an IT Support Specialist, Junior Cybersecurity Analyst, or AI-focused technician.



Course Content:

Year 1: IT Support Skills

- Master PC hardware by building and repairing PCs, including motherboards, memory, CPUs, and storage.
- Install, configure, and troubleshoot operating systems such as Windows and Linux.
- Explore server virtualization by creating and managing virtual machines with platforms such as VMware and Proxmox.

Year 2: Networking, Security & AI

- Dive deep into networking by learning how the internet works, including protocols like DNS and DHCP, and how to build and crimp network cables.
- Configure enterprise-grade Cisco routers and switches to build and manage secure business networks.
- Learn the fundamentals of Cybersecurity, including information security best practices to keep company data safe.
- Administer Windows and Linux servers, a core skill for any network administrator.

Program Considerations:

Students must:

- Be prepared for a two-year commitment with daily, hands-on assignments.
- Possess strong logical and sequential thinking skills to excel at troubleshooting.
- Be able to read technical material and communicate effectively, both verbally and in writing.
- Be ready to work both independently and as part of a team to solve complex problems.

SUNY Corning Community College ACE Credits:

- CSCS 1200 Computer Essentials (4 credits)
- CSNT 1200 Introduction to Networks (4 credits)

Post-Secondary Fields of Study:

- Associate of Science (A.S.) or Bachelor of Science (B.S.) in Cybersecurity
- A.S. or B.S. in Network Administration and Security
- B.S. in Computer Science (with a concentration in Security or AI)
- B.S. in Information Technology
- B.S. in Data Science or Data Analytics

Employers Who Have Hired CTE Program Students:

The Technology Departments of:
Corning Inc. • Corning Hospital • Community Bank, NA
CyberDark Computing • Elmira College • Alfred University
The State of New York • GST BOCES • GameStop • IB Design
Salient Corp. • Sellard Communications • Staples • US Military

Articulation Agreements With:

SUNY Alfred State College • SUNY Cobleskill
SUNY Corning Community College (ACE)
SUNY Herkimer Community College

Integrated Academic Credits (over two years):

English (1 credit)

Collision Repair and Refinishing Technology (CIP-470603)

CO-SER: Bush 101.200, Coopers 101.1000

As a Collision Repair and Refinishing Technology student, you will learn everything from estimating to refinishing. This includes detailing, panel replacement, welding and surface preparation, along with the latest in painting technology.

Students will learn vehicle construction and become familiar with the tools used in the collision repair field. The equipment you will use in the course is the latest in technology and comparable to that found in commercial collision repair facilities. This class gives students a solid foundation for entry-level work in the field or to further their studies in this ever-growing industry.



Course Content:

- Surface Preparation/Painting
- Vehicle Construction & Structural Repair Concepts
- Electronic Estimating & Small Business Management
- Automotive Detailing and Paint Correction
- Sheet Metal Repair/Welding
- Plastic and Composite Repair

Program Considerations:

Students must:

- Be able to communicate verbally and in writing, and have basic reading and comprehension skills at commencement level
- Be able to process commencement-level math computations
- Behave safely around dangerous chemicals, gases and moving equipment
- Be able to lift at least 25 pounds

Post-Secondary Fields of Study:

Two-year degree in Auto Body Repair & Refinishing
Four-year degree in Automotive Management

Employers Who Have Hired CTE Program Students:

Advance Auto Parts • Alstom • Arkport Cycles • Auto Zone
Carapella's Collision • Choice Auto Glass • Elm Chevrolet • Elmira Auto Paint
Ferrario Chrysler Jeep • Dodge Ford • Fox Auto Group
Gerber Collision and Glass • Goodrich Auto Works • Gunlocke
Kent's Auto Body • Liquidz Auto Body Supply • Mercury Aircraft • RJ Cars
S & S Alignment • Safelite Auto Glass • Scott's Collision
Simmons Rockwell Dealerships • State Line Autobody
Stephen's Auto Supply • Ward Apparatus • White Hat Collision

Articulation Agreements With:

Lincoln Technical Institute • Ohio Technical College
SUNY Alfred State College • SUNY Morrisville • Universal Technical Institute
University of Northwestern Ohio

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Specialized Math (1 credit)

Conservation (CIP-030101)

CO-SER: Bush 101.200

As a Conservation student, you will develop knowledge and skills related to production management and conservation of natural resources, as well as skills related to the biological, environmental and economic importance of renewable natural resources. Students also will be introduced to greenhouse operations and management, in addition to nursery and landscape operations.

You will be introduced to the safety and operation of multiple pieces of modern, state-of-the-art equipment. Certifications that may be earned include Natural Resources Science I and II, Erosion Control, First Aid and CPR, as well as all four NYS Hunter Education disciplines.

If you're interested in this field, you should have the capacity to work long hours in all types of weather conditions.

The Conservation program is an approved Precision program. Students will be required to take nationally-standardized exams in order to earn national certification in Natural Resources I and II and Greenhouse and Landscape Management.



Course Content:

- Leadership/FFA
- Construction Equipment Operation and Maintenance
- Chainsaw Operation & Uses
- Natural Resource Science Management
- Surveying & Land Management
- Forests & Forest Management
- Waste Management
- Effective Methods of Communication
- Interrelationships between Natural Resources and Humans
- Fisheries and Game Species
- Weather, Climate, Air & Water Quality
- Sustainability in the Environments
- Habitats and Population in Global Environmental Dynamics
- Basic Economic Principles

Program Considerations:

Students must:

- Be able to process commencement-level algebraic equations
- Have reading and comprehension skills at commencement level
- Have excellent eye/hand coordination

- Be able to lift a minimum of 25 pounds
- Behave safely around hazardous moving equipment

Post-Secondary Fields of Study:

Two-year degree: Conservation or Horticulture • Greenhouse Management
Forestry • Aquaculture • Equipment Operation

Four-year degree: Forestry • Conservation • Aquaculture • Horticulture
Geology • Conservation Law

Employers Who Have Hired CTE Program Students:

Chemung County Highway Department • Chemung County Soil & Water
Conservation • Central Recycling • City of Elmira • Corning Inc.
Dalrymple • Edger Enterprises • Town of Big Flats • Town of Elmira
Town of Erin • Town of Horseheads • Village of Horseheads

Articulation Agreements With:

Paul Smith's College • SUNY Cobleskill

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Specialized Math (1 credit)

Continued

Cosmetology (CIP-120401)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

Cosmetology is a two-year course offering instruction and practical experience in the skills and theory necessary for employment as a hair designer, nail technician or full-service cosmetologist. This includes care of the hair, skin, nails and all other related services. You'll find the CTE Program laboratory equipment similar to that found in a modern salon.

As a Cosmetology student, you'll be required to complete 1,000 hours of instruction. Your successful completion of the program, by passing with a 65 average or better, will qualify you to take the New York State Cosmetology Licensing Exam.

In order for Cosmetology students to meet the NYS requirement of 1,000 hours of instruction, they must attend a summer training program following the completion of their first year. Students have the opportunity to earn up to 125 additional hours outside of school time (subject to instructor approval). The work experience coordinator will assist the student in setting up and tracking these additional hours.



Course Content:

- Health and Safety, State Board Licensing Procedures
- Hairstyling, Haircutting and Barbering Techniques
- Chemical Services/Permanent Waving and Straightening
- Facials, Waxing and Facial Makeup Procedures
- Nail Technology and Nail Enhancements
- Professional and Business Skills
- Domestic Violence and Sexual Assault Training

Program Considerations:

Students must:

- Be able to maintain confidential information
- Be able to effectively communicate verbally and in writing
- Be able to process geometry, ratios, decimals, percentages and measurements accurately
- Have excellent eye/hand coordination
- Have reading and comprehension skills at commencement level
- Behave safely around sharp equipment and potentially hazardous chemicals

Post-Secondary Fields of Study:

Esthetician/Skin Care Specialist • Four-year Cosmetic Chemist degree
Advanced Training for Nail Technician • Lash Training
Microblading Certification • Business

Employers Who Have Hired CTE Program Students:

AJ's Hair, Make-up • AgeLess Spa • Amelia Davis Salon • Angela's Hair Zoo
Bella Capelli • Cost Cutters • Cutting Crew • Elaura Salon • Fringe
Garcia's Barber Shop • Grace Holistic • Hair & Co. • Hair 2 Dye 4 • Hair Hut
Hello Beautiful • I Love Honeycomb • JC Penney Salon • Jody's Hair Design
Johnny & June's • K. Rae Salon • Magic Hairstyling • Mall Barber Shop
Pretty Perfect Hair Solutions • Salon 96 • Smart Style • Salon Visage
Studio 12 Hair Design • Top and Bottoms • Tranquilities • Ulta Beauty

Articulation Agreements With:

SUNY Alfred State College • SUNY Corning Community College
SUNY Fulton-Montgomery Community College
SUNY Schenectady County Community College

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Specialized Math (1 credit)

Criminal Justice (CIP-430107)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

Designed to give students hands-on instruction in the field of criminal justice, this course allows students to patrol the campus and investigate mock crime scenes. They participate in role-plays, field trips, group projects and disaster drills to learn law and crisis intervention skills in an informative, educational and interactive way.

The course emphasizes teamwork, problem-solving and self discipline. Students use their skills by providing security at special events both on and off campus.

During the second year, students complete an internship with various criminal justice agencies. They are eligible for New York State certification as a security officer, FEMA certification and CPR/AED certification. Students will learn professional report writing skills that they could apply in multiple areas of the criminal justice field.



Course Content:

- Accident Investigation
- Criminal Law/Forensic Science
- Crime Scene Investigation
- Critical Incident Management
- CPR/First Aid/AED
- Firearms Safety
- Internship
- Narcan
- NYS Security Guard 8 Hour Pre-Certification
- Non-Violent Crisis Intervention/Verbal De-escalation
- Patrol Procedures/Crisis Intervention
- Physical Fitness Training
- Report Writing
- Stop the Bleed
- Supervision & Leadership Skills
- Vehicle Stops

Program Considerations:

Students must:

- Be able to effectively communicate verbally and in writing
- Have a good record of appropriate behavior and respect for the law
- Have good eye/hand coordination, balance, stamina and attention to detail
- Be able to adhere to required dress code
- Behave safely around specialized equipment
- Have interest in forensic science
- Be able to participate in physical training

Post-Secondary Fields of Study:

Criminal Justice • Fire Science • Forensic Science
Emergency Management • Pre-Law • Psychology

Employers Who Have Hired CTE Program Students:

Addison Police Dept. • Alstom • Arnot Mall Security
Arnot Ogden Medical Center • Bath Police Dept. • Canisteo Police Dept.
Cataaugus Co. Sheriff's Dept. • CCC Public Safety • Chemung County Jail
Chemung County Sheriff's Dept. • Cornell University Police Canine Unit
Corning Inc. Security • Corning Police Dept. • Elmira College Security
Elmira Police Dept. • Erie Co. Medical Examiner's Office • FLCC Public Safety
Hornell Police Dept. • Horseheads Police Dept. • Local fire departments
MetLife Insurance • NYS Dept. of Corrections • NYS Park Police
NY State Police • Rocky Mountain Police Dept. • Steuben County Court
Steuben County Jail • Steuben County Sheriff • Tioga Downs Casino Security
Watkins Glen Police Dept. • Wegmans Security

Articulation Agreements With:

Hilbert College • SUNY Alfred State College • SUNY Canton
SUNY Corning Community College • SUNY Herkimer Community College
SUNY Mohawk Valley Community College

Integrated Academic Credits (over two years):

Integrated ELA
Specialized Science
Participation in Government (.5 credit)
Economics (.5 credit)
Physical Education (awarded at district discretion) (.5 credit)

SUNY CCC ACE Credits (Bush Campus Only)

CRJ 1010 - Introduction to Criminal Justice (3 credits)
CRJ 1040 - Criminal Procedure Law (3 credits)
CRJ 1050 - Penal Law (3 credits)
CRJ 2015 - Criminal Investigations (3 credits)
BUSN 1055 - Professionalism (3 credits)

Culinary Arts (CIP-120599)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

This course introduces students to careers in commercial food service and teaches them the basic skills and knowledge they need for success in this industry. On-the-job training and hands-on experience, coupled with a dynamic and comprehensive curriculum, fuel this program. High school students will experience all aspects of operating and managing a food service establishment, and will build good business and management skills that are transferrable to other industries. The course content is aligned with National Restaurant Association standards and the curriculum is based on ProStart through the New York State Restaurant Association Education Foundation.



Course Content:

- Introduction to Restaurant & Food Service/Career Opportunities/ Professional Expectations/Communication Skills/Beginning Your Career/Introduction to Food Safety/Hygiene and Cleanliness/ The Safe Flow of Food/Risk Management/Workplace Safety Procedures/Food Service Equipment/Knives and Smallware/ Kitchen Basics/Culinary Math/Salads, Dressings and Dips/ Sandwiches and Pizza/Stocks, Soups and Sauces/Cooking Methods/Introduction to Baking/Principles of Great Service/ Front-of-the-House Basics/Introduction to Management
- Introduction to Marketing/Menu Management/Eggs and Dairy Products/Breakfast Cookery/Fruits/Vegetables/Potatoes/Grains and Pasta/Introduction to Cost Control/Food Costing/Labor Costing/Purchasing/Building Successful Teams/Sustainability/ Introduction to Nutrition/Components of Healthful Meals/Meats/ Poultry/Seafood/Yeast Breads/Cakes and Pies/Desserts/Plating and Garnishing

Program Considerations:

Students must:

- Be able to effectively communicate verbally and in writing
- Have reading, comprehension and basic math skills at commencement level
- Be able to adhere to required dress code
- Be willing to serve people and maintain good personal hygiene and sanitation
- Be able to lift 25 pounds, food stock and heavy serving trays
- Have professional behavior and language toward peers and potential customers and/or employers
- Be able to follow required industry safety and sanitation procedures

Post-Secondary Fields of Study:

Degrees in Culinary Arts • Baking and Pastry Arts
Food and Beverage Entrepreneurship • Food and Beverage Management
Hotel and Lodging Management • Dietetics Culinary Nutrition
Applied Food Science

Employers Who Have Hired CTE Program Students:

Alfred University • Bath VA Medical Center • Bethany Village • Bob Evans
Castel Grisch • Chat-A-Whyle • Chemung ARC • Colonial Inn
Cornell University • Corning Catering • Corning Inc. • Finger Lakes House
GST BOCES • Harbor Hotel • Hershey Park • Hill Top Inn • Hilton Garden Inn
Holiday Inn • Hornell Country Club • Italian Villa • JC's Cafe • Marino's
Mooney's Sports Bar & Grill • Olive Garden • Panera Bread • Paddy's Pub
Popperton Pastries • Quincy Exchange • Radisson • St. James Mercy Hospital
St. Joseph's Hospital • Tanino Ristorante & Cafe • The Cellar
The Great Escape • Turning Stone Casino • Village Cafe (Arkport)
Watson Homestead • Wegmans

Articulation Agreements With:

Culinary Institute of America • New York State Restaurant Association
Paul Smith's College • SUNY Alfred State College • SUNY Cobleskill
SUNY Delhi • SUNY Morrisville • SUNY Niagara
SUNY Schenectady County Community College
SUNY Tompkins Cortland Community College

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Specialized Math (1 credit)

Dental Assisting (CIP-510601)

CO-SER: Bush 101.200

As a Dental Assisting student, you'll gain the knowledge and practical skills necessary to assist a dentist in the examination and treatment of patients.

Course work includes dental anatomy, chairside assisting, charting teeth, tooth restoration, dental specialties, laboratory skills, office procedures and dental x-rays including digital radiology. You also will participate in a clinical experience one day a week (with an option of a partial summer) in area dental offices. Upon successful completion of the course and 200 hours of internship, you may sit for the New York State Dental Assisting Certification Exam.



Course Content:

- Dental Anatomy/Chairside Assisting
- Tooth Restoration/Patient Records
- Dental Specialties/Dental Laboratory Skills
- Dental Radiography/Dental Office Management

Program Considerations:

Students must:

- Be able to effectively communicate verbally and in writing
- Be able to maintain confidential information
- Be able to adhere to required dress code and maintain good personal hygiene
- Be able to behave safely around sharp objects, heated equipment and potentially hazardous chemicals and materials
- Have good skills in memorization of data and recall
- Be able to deal with body fluids and unpleasant odors
- Be able to adhere to current infection control standards

Post-Secondary Fields of Study:

Two-year/four-year degree: Dental Hygiene

Two-year degree: Dental Laboratory Technology • Dental School

Employers Who Have Hired CTE Program Students:

Dr. Cesari • Dr. Peterson • Dr. Conte • Dr. Dailey • Dr. Eng • Dr. Tran • Dr. Lawas
Dr. Minchin • Dr. Huynh • Dr. Owens • Dr. Seltzer • Dr. Uy • Dr. Clark
Drs. Wilke & Baker • Dr. Rizzone • Dr. McKee • Dr. Shaw • Dr. Marzo
Dr. Karpinski • Dr. Woodard • Dr. Roman • Dr. Schultz • Able2 • Bath VA
Drs. Dolan & Bempkins • Lalor Dental • Dr. Horn Orthodontics
Southport Dental • Corning Dental Associates • Eaves Family Dental
Chemung Family Dental Center • Safari Smiles • Guthrie Dental Clinic
Southport Crown & Bridge • Seneca Dental Associates
Near Westside Dental • Dr. Melissa Brown Orthodontics
Corning Family Dental • Watkins Glen Family Dental and Implant Center

Articulation Agreements With:

SUNY Broome Community College

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Health (.5 credit)

Diesel Equipment Technology, Maintenance & Repair (CIP-470605)

CO-SER: Bush 101.200

Diesel Equipment Technology, Maintenance & Repair at the CTE Program is a two-year certificate course. During the first year of the course, students learn about gasoline engine theory, maintenance and repair, then transition to larger basic diesel engines. The second year of the course concentrates on diesel engine operation, maintenance and trouble shooting, heavy equipment suspension, drive train components and hydraulics. Students will have the opportunity to work on large diesel engines typically found in farm and construction equipment. A student enrolled in this program also can repair his or her own vehicles or equipment. This is a hands-on, project-based learning course.



Course Content:

- Engine Systems
- Engine Overhaul/Engine Diagnosis
- Introduction to Tractor Trailer Diesel Engines/Diesel Electronics & Hydraulics
- Diesel Fuel Injectors & Pumps/Fuel Systems (Gas & Diesel)

Program Considerations:

Students must:

- Be able to effectively communicate verbally and in writing
- Be able to process commencement-level math computations
- Be able to behave safely around dangerous chemicals, gases and moving equipment and follow directions
- Be willing to serve community members courteously
- Be able to lift 25 pounds

Articulation Agreements With:

Lincoln Technical Institute • Ohio Technical College
SUNY Alfred State College • SUNY Cobleskill • SUNY Morrisville
Universal Technical Institute • University of Northwestern Ohio

Post-Secondary Fields of Study:

Two-year degree: Heavy Equipment/Diesel Engine • Diesel Technology
Auto Technology • Automotive Parts Management
Lawn and Garden Technology • Agricultural Technology

Four-year degree: Agricultural Equipment Technology

Technical institute certificate and degree programs:
Heavy Equipment/Truck Technology • Automotive Technology
Marine/Motorcycle Technology

Employers Who Have Hired CTE Program Students:

Arnot Ogden Medical Center • Chemung County Highway Department
Conway Beam • Dalrymple Gravel and Contracting
Elmira City School District Transportation Department
Hardinge Incorporated • Mavis Discount Tire • Monroe Tractor
NAPA Auto Parts • Schuyler County • Schuyler Truck Alignment

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Specialized Math (1 credit)

Digital Media Arts (CIP-110803)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

Digital Media Arts is a project-based program for students who want to discover exciting career options available in the rapidly growing visual communications field. The program blends traditional design principles, composition, color theory and layout and typography with advanced technical skills.

Students use our high-tech digital design lab and photography and video production studios along with the latest professional software and equipment.

Students select specialized professional level training courses designed to align with their career goals. These are team-based or self-paced individual learning modules which allow highly motivated students to complete multiple courses during the program. Successful students will earn certification through the Adobe Certified Professional Program.



Course Content:

- Graphic Design & Publishing
- Commercial & Studio Photography
- 3D Animation & Game Design
- Specialty Vinyl, Screen & Print Graphics
- Video Production & Visual Effects
- Podcasting
- Professional Software: Adobe Creative Cloud CC Suite (Photoshop, Illustrator, InDesign, Premiere Pro, After Effects, Audition, Animate, Dreamweaver), Autodesk 3DS Max, Autodesk Maya
- Emerging Technology: Dye Sublimation Technology, Drone Photography, Virtual Reality Design, Augmented Reality Design & Visual Scripting, Laser Engraving

Program Considerations:

Students must:

- Be able to effectively communicate verbally and in writing
- Have reading and comprehension skills at commencement level
- Have interest in the arts

Post-Secondary Fields of Study:

Computer Animation • Photography • Graphic Design • Video Game Design
Industrial Design Technology • Video Production • Interior Design
Web Design • Multi-Media • Fine Arts

Employers Who Have Hired CTE Program Students:

Addison Post • ESPN • Evening Tribune • Finger Lakes Sign & Design
Goodrich Auto Works • Multi Media Services
Mystic Media Web Design • Pegula Sports & Entertainment
Rainbow Lettering • Steuben Courier-Advocate • The Leader
WENY-TV • WETM-TV

Articulation Agreements With:

SUNY Alfred State College • SUNY Broome Community College
SUNY Canton • SUNY Cobleskill • SUNY Mohawk Valley Community College
SUNY Tompkins Cortland Community College

Certifications:

- Adobe Certified Professional - Visual Design using Adobe Photoshop
- Adobe Certified Professional - Digital Video using Adobe Premiere
- Adobe Certified Professional - Graphic Design and Illustration using Adobe Illustrator
- Adobe Certified Professional in Visual Design (Photoshop + Illustrator or InDesign)
- Adobe Certified Professional in Video Design (Premiere + Photoshop or After Effects)

Integrated Academic Credits (over two years):

English (1 credit)

Early Childhood (CIP-190709)

CO-SER: Bush 101.200

This course is designed to prepare students to work as an Early Childhood Assistant. Students spend time off-campus working with children aged infant to second grade to assist in developing vital job skills. As part of this program students will participate, with teacher's approval, in a public or private school classroom.

As an Early Childhood student, students will be prepared to seek employment as a nanny (private care), in public and private day care centers and in agencies serving the disabled. Students also will be well-prepared to continue their education in early childhood education or elementary education or to establish their own home or family day care program.



Course Content:

- Introduction to Early Childhood Education
- Setting Up Your Own Preschool
- Special Education: Middle Aged Children Planning & Developmental Activities
- Observation, Guidance and Discipline
- Planning, Participation & Assessment for 4- and 5-Year-Olds
- Professional Development & School-to-Work Transition

Program Considerations:

Students must:

- Be able to effectively communicate verbally and in writing
- Have basic reading and comprehension skills
- Be able to exhibit self control in crisis situations and to think and react quickly and safely
- Be able to lift and be physically active in a playground setting
- Be able to maintain confidential information
- Be able to control personal behavior and control language

Post-Secondary Fields of Study:

Two-year degree: Human Services

Four-year degree: Elementary Education/Social Work/Special Education

Employers Who Have Hired CTE Program Students:

Amy's Sunshine Daycare • Corning Children's Center • EOP Headstart
Schuyler Headstart • Corning School District • Elmira School District
Horseheads School District • GST BOCES • Waverly School District

Articulation Agreements With:

SUNY Broome Community College • SUNY Canton • SUNY Cobleskill
SUNY Corning Community College

Integrated Academic Credits (over two years):

English (1 credit) • Specialized Science (1 credit)

SUNY CCC ACE Credits:

ECED 1110 – Introduction to Early Childhood Education (3 credits)

Fashion Design, Merchandising & Marketing (CIP-190902)

CO-SER: Bush 101.200

Students will focus on fashion design, fashion drawing, fashion construction and production methods, pattern manipulation, textile technology, merchandising and marketing. Fashion Design is a technical discipline centered on materials, design, assembly and maintenance of textile machinery and products manufactured by this machinery.

The Fashion Design, Merchandising & Marketing Program has been organized into defined units of study covering all of the knowledge and skills needed for the student who will be seeking employment or further education in the design and manufacturing of clothing. Topics include clothing design, clothing construction, advanced dressmaking, flat patternmaking, draping, textiles, business marketing, merchandising and fashion show production.



Course Content:

- Introduction to Design Theory
- Sewing Machines & Garment Construction
- Patterns & Development
- Textile Technology
- 3D Design & Draping
- Mood Boards and Collection Design
- Business Focus on Merchandising and Marketing
- Fashion Show Planning & Participation

Program Considerations:

Students must:

- Be able to effectively communicate verbally and in writing
- Have an interest in artistic design methods including fabrication and production
- Be able to process commencement-level math calculations
- Be able to behave safely around sharp objects

Post-Secondary Fields of Study:

Fashion Design • International Fashion Trade and Marketing
Marketing • Production Management • Textile and Surface Design
Textile Development • Product Development

Employers Who Have Hired CTE Program Students:

BonJulie's • Charlotte Russe • David's Bridal
Dick's Sporting Goods (Asst. Designer) • JC Penney • JoAnn Fabrics
Kohl's • LL Bean (Designer) • Macy's • Victoria's Secret (Asst. Designer)

Articulation Agreements With:

SUNY Herkimer Community College
Laboratory Institute of Merchandising College

Integrated Academic Credits (over two years):

English (1 credit) • Specialized Science (1 credit) • Math (1 credit)

Heavy Equipment (CIP-470302)

CO-SER: Coopers 101.100, Wildwood 101.300

Students in the Heavy Equipment program study the operation, maintenance and repair of heavy equipment. Upon completion, students are adaptable to a wide variety of careers in the construction industry. The program offers a combination of theory, academic integration, technical skills, hands-on instruction and field project experiences.



Course Content:

- Basic Operation of Backhoes, Bulldozers, Loaders, Skid Steers, Tractors, Dump Trucks & Excavators
- Preventative Maintenance of Heavy Equipment & Motorized Power Equipment/Basic Surveying
- Equipment Safety/Off-Campus Projects
- Battery Systems
- Welding/Small Engines
- Fork Lift Training
- Tires & Brakes/Load & Lash
- Chain Saw Operation/Forestry/Logging
- Senior Projects
- Cooperative Mentoring
- NYS certifications: CDL-B, OSHA 10, Erosion Control, AED/CPR, NYS Logger
- NCCER Core Curriculum: Material Handling, Basic Employment Skills, Basic Communication Skills, Blueprints, Power Tools, Construction Math, Basic Safety

Program Considerations:

Students must:

- Be able to process basic mathematical equations
- Have basic reading and comprehension skills
- Have excellent eye/hand coordination

- Be able to lift a minimum of 25 pounds
- Behave safely around sharp, heated and potentially hazardous moving equipment in a shop environment

Post-Secondary Fields of Study:

Two-year degree: Agriculture Mechanics • Conservation • Diesel Technology
Equipment Operation • Forestry • Heavy Equipment Technology
Natural Resources Management • Welding

Four-year degree: Conservation Law • Civil Engineering • Forestry
Surveying

Employers Who Have Hired CTE Program Students:

Cold Springs Construction • Corning Incorporated • Gutchess Lumber
L.C. Whitford Co. • Local 158 Operating Engineers Union • Mercury Aircraft
NYS Dept. of Transportation • R and R Docks • Steuben County
Town Highway Departments • Wagner Forest Products

Articulation Agreements With:

Lincoln Technical Institute • Penn Tech
SUNY Alfred State College • SUNY Cobleskill

Integrated Academic Credits (over two years):

English (1 credit) • Math (1 credit)

Continued

Nurse Assisting (CIP-511614)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

Nurse Assisting offers students the skills necessary to seek employment in hospitals, long-term care facilities, home health care, residential care and facilities for the mentally and physically challenged. Students will learn the use of medical equipment, medical/surgical techniques, infection control and procedures common to health care. In addition, students will acquire basic knowledge vital for professional health careers including radiology, physical/occupational therapy, mental health and nursing.

The Nurse Assisting course emphasizes geriatrics and direct patient care. Upon successful completion of this program, students will produce a marketable résumé and be eligible to take the NYS exam for Certified Nurse Assisting. Integration of academics, technology and workplace skills are important components of this course.



Course Content:

- Health Care Worker/Nurse Assisting
- Advanced Nurse Assisting I/Advanced Nurse Assisting II
- Geriatrics (CNA)/Advanced Geriatrics (CNA)

Program Considerations:

Students must have a commencement-level understanding of Biology/Living Environment, as well as be able to:

- Effectively communicate verbally and in writing
- Process commencement-level math calculations
- Maintain confidential information
- Lift a minimum of 25 pounds
- Manage bodily fluids and unpleasant odors
- Follow directions and control personal comments and behaviors in a professional setting

Post-Secondary Fields of Study:

Licensed Practical Nurse

Two-year degree: Registered Nursing • Medical Laboratory Technology
Health and Human Services • Radiology degree

Four-year degree: Nursing/Nurse Practitioner/Midwife

Employers Who Have Hired CTE Program Students:

Able 2 • Absolut Care of Three Rivers • ARC • Arnot Ogden Medical Center
Bethany Retirement Center • Brookdale Painted Post
Chemung County Nursing Facility • Corning Centers • Corning Hospital
Elcor Health Services • Elderwood • Guthrie Health Care
Ira Davenport/Taylor Health • Maple City Rehabilitation Center
Oak Orchard Healthcare • Pathways, Inc. • St. Joseph's Hospital
Sayre Health Care Center • Steuben Centers • The Falls Home
University of Rochester Medical Center
Updyke's Willow Ridge Quality Care • Woodbrook

Articulation Agreements With:

SUNY Alfred State College • SUNY Broome Community College
SUNY Corning Community College

Integrated Academic Credits (over two years):

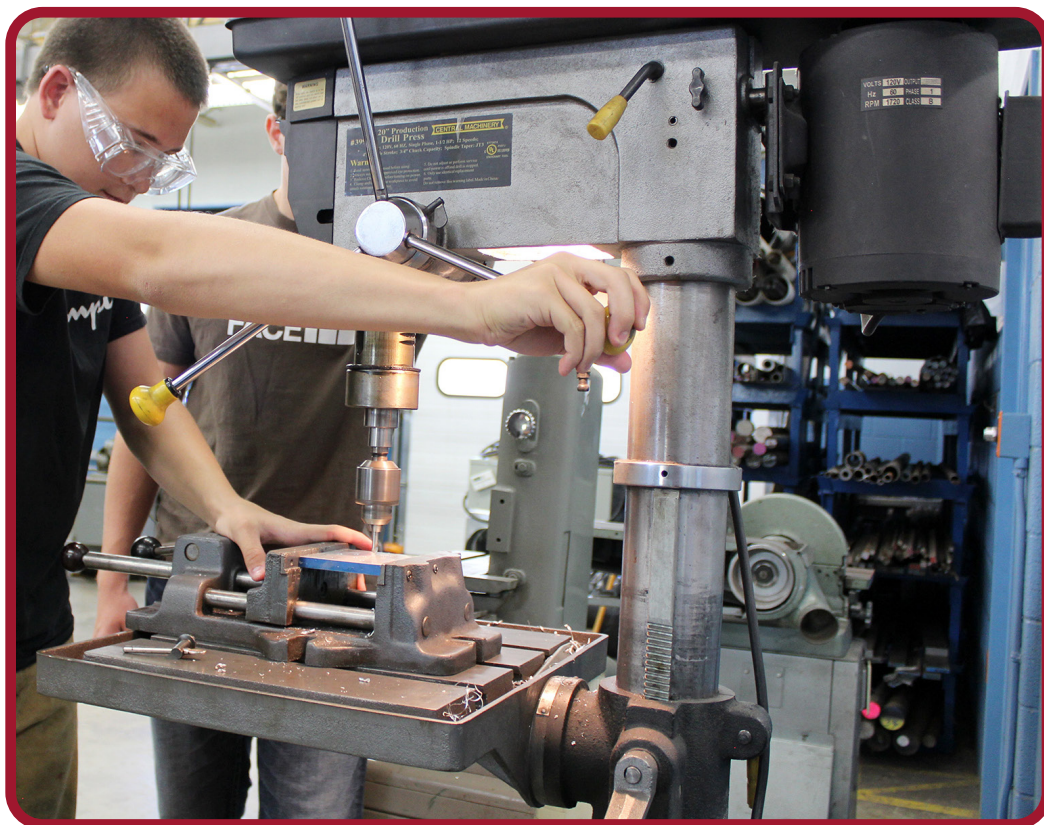
English (1 credit) • Science (1 credit) • Health (.5 credit)

Precision Machining (CIP-150613)

CO-SER: Bush 101.200 and Coopers 101.100

This two-year Machine Trades program will prepare students for entry-level jobs in a variety of manufacturing opportunities and provide a fantastic foundation for students looking to enter the Mechanical and Manufacturing Engineering fields. The goal of this program is to help students develop both the theory knowledge on machining as well as hands-on skills in a “real world” learning environment.

Students will also have the opportunity to visit local businesses to see and speak with employees working in this occupation as well as complete an internship with a local company.



Course Content:

First Year:

- Safe practices and procedures
- Blueprint reading and layout
- Mathematical concepts and linear measurement
- Precision measurement
- Use of surface grinder
- Setup and operation of a drill press, band saw, grinders
- Setup and operation of lathes and milling machines

Second Year:

- Advanced blueprint reading
- Advanced setup of lathe and mill operations involving internal threading, grooving, boring, precision machining and developing production machining
- Precision grinding
- CNC programming and operation of lathe and mill

Program Considerations:

Be able to communicate effectively verbally and in writing

- Be able to process commencement-level math calculations
- Have good eye/hand coordination and attention to detail
- Be able to maintain dress code and safety rules
- Be able to behave safely around equipment and potentially hazardous gases, chemicals and hot torches

Potential Machining Careers:

General Machinist • Apprentice Tool and Die Maker • CNC Operator
Tool and Die Maker • CNC Programmer (college pathway needed)

Articulation Agreements With:

Penn Tech • SUNY Alfred State College • SUNY Corning Community College

Integrated Academic Credits (over two years):

English (1 credit) • Math (1 credit)

Professional Business Financial Technology (CIP-520399)

CO-SER: Bush 101.200, Wildwood 101.300

This program will prepare students to be successful working in the modern office environment. Students will develop proficiency in the technological skills used in the modern office as well as developing excellent interpersonal communication skills. They will become familiar with software applications for word processing, presentations and spreadsheets, while also learning office practices and concepts of accounting and bookkeeping for the small business.

Students in this program will have the opportunity to earn Microsoft Office Specialist certifications while earning 20.5 ACE credits from Corning Community College. Through these ACE credits, during the two-year program, students also will earn one micro-credential in Bookkeeping and Accounting. These credits and micro-credentials are highly transferrable and would plug directly into any business program being offered by SUNY institutions.

Students will be prepared to take the Civil Service exam(s) for Clerk Typist and Account Clerk. Students turning 18 years old during their senior year will also have the opportunity to earn the NYS Notary Public license.



Course Content:

Workplace Skills

- Basic Communication Skills
- Dynamics of Communications
- Customer Service
- Presentation Design Skills
- Business Math & Writing
- Records Management & Organization
- Internet Research and Copyright
- Notary Public Training
- Accounting Principles
- Job Search, Resume & Interview Skills
- Internship and/or Diversified CO-OP

Office Technology

- Orientation to Microsoft Windows and online software and tools
- MS Office 365 & MOS Certifications
- Cloud Computing & Document Sharing
- QuickBooks Accounting Software

Program Considerations:

Students must:

- Be able to communicate verbally and in writing on grade level
- Have commencement-level reading skills
- Have good self-discipline and etiquette

- Be interested in working in a professional business environment
- Have the desire to complete college classes

Post-Secondary Fields of Study:

Business Administration • Accounting • Office Management • Business Law
Marketing • Medical Office • Legal Studies • Court Reporting

Employers Who Have Hired CTE Program Students:

This program was designed in collaboration with CCC to meet the needs of local employers.

Articulation Agreements With:

SUNY Corning Community College (ACE)

Integrated Academic Credits (over two years):

English (1 credit)

SUNY CCC ACE Credits Available:

- ACCT 1000 – Accounting practices (4 credits)
- BUSN 1003 – Personal Budgeting (.5 credit)
- BUSN 1055 – Professionalism (3 credits)
- BUSN 1100 – Business Applications (3 credits)
- BUSN 2020 – Personal Finance (3 credits)
- FYEX 1000 – First Year Experience (3 credits)
- SPCH 1080 – Public Speaking (3 credits)

Continued

Welding (CIP-480508)

CO-SER: Bush 101.200, Coopers 101.100, Wildwood 101.300

As a Welding student, you will learn the proper procedures for welding and the recognition of metals. You will also receive instruction in proper safety and the care and use of small hand and power tools used in the trade of metal fabrication. You will have the opportunity to develop skills in reading and understanding blueprints. Our goal is to prepare students for employment in the welding field by offering effective hands-on and classroom training to meet local industrial standards.



Course Content:

- Introduction & Fundamentals
- Basic Alignment and Fit-Up Tools
- Use of Power Tools and Multi-Function Machines
- Cutting Processes
- Oxy-Acetylene Cutting
- Plasma Arc Cutting
- Metal Preparation & Quality
- Proper Metal Preparation and Weld Inspection
- Welding Processes
- Basic Gas Tungsten Arc Welding (GTAW) in Mild Steel and Aluminum
- Advanced Shielded Metal Arc Welding (SMAW)
- Advanced Gas Metal Arc Welding (GMAW)
- Technical Knowledge & Analysis
- Advanced Welding Symbols and Blueprint Reading
- Metallurgy and Weldability of Alloys
- Certification & Professional Standards
- Welder Certification and Performance Qualifications

Program Considerations:

Students must:

- Be able to communicate effectively verbally and in writing
- Be able to process commencement-level math calculations
- Have good eye/hand coordination and attention to detail
- Be able to maintain dress code and safety rules
- Be able to behave safely around equipment and potentially hazardous gases, chemicals and hot torches

Post-Secondary Fields of Study:

Two-year degree: Welding Technology
Four-year degree: Welding Engineering

Employers Who Have Hired CTE Program Students:

Air Flow Manufacturing • Alstom • BMS-Bill's Machine Shop • CAF
Cameron Manufacturing & Design • Cedar Street Manufacturing
Cornell University • CRANE Tech • Dalrymple Construction
Elmira Metal Works • LC Whitford • Plumbers and Steam Fitters Local 267
Reynolds Manufacturing • Sheet Metal Workers Local 112
UTC Railcar Repair Service LLC • Vulcraft

Articulation Agreements With:

Lincoln Technical Institute • Ohio Technical College
SUNY Alfred State College • SUNY Cobleskill • SUNY Delhi

Integrated Academic Credits (over two years):

English (1 credit) • Science (1 credit) • Math (1 credit)

Certifications Offered:

- OSHA 10 Certification
- AWS SENSE Level 1 Shielded Metal Arc Welding (SMAW) Certification

Career Connections (Bush, Coopers, Wildwood)

The goal of the Career Connections program is to expose students to all the CTE programs. Career Connections focuses on exploration of a variety of career areas including extended hands-on learning experiences in Career and Technical Education (CTE) Certificate Programs at the junior and senior level as outlined below:

Introduction to:

- Trade skills through work experiences in multiple CTE certificate programs.
- Workplace safety specific to the CTE programs.
- Hands-on real-world experiences in a variety of disciplines.
- Employer and customer service expectations.
- Skills for the 21st Century.

Referrals can be made at any point during the year. Please contact your CTE Campus school counselor for specific information regarding the Career Connections program.



Other GST BOCES Learning Opportunities

Linking education with business and industry is an important part of education at GST BOCES. There are several programs available that can provide students with “hands-on” experience with an area employer. These programs can be as short as 20 hours or can last up to an entire school year, depending on what best fits a student’s needs. At the worksite, a student will have the opportunity to ask questions, gain valuable experience and earn a great reference that can help in the future.

Internship

Students who are eligible may have the opportunity to complete an internship through their Career and Technical Education Program at GST BOCES. The student will work with his or her instructor and the work experience coordinator to determine the location and length of the internship. Maintaining positive relationships with community worksites is key to the program. Students will be eligible for internship after demonstrating a strong work ethic, positive job skills and maintaining grades and attendance.

Generally, an internship lasts two weeks, though some may continue for several months. The student reports to the worksite instead of BOCES during assigned times. Some placements include time outside of school hours.

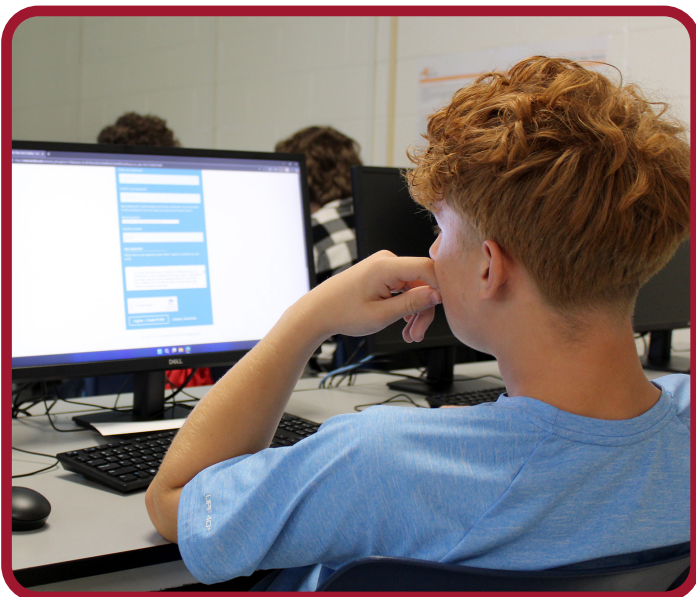
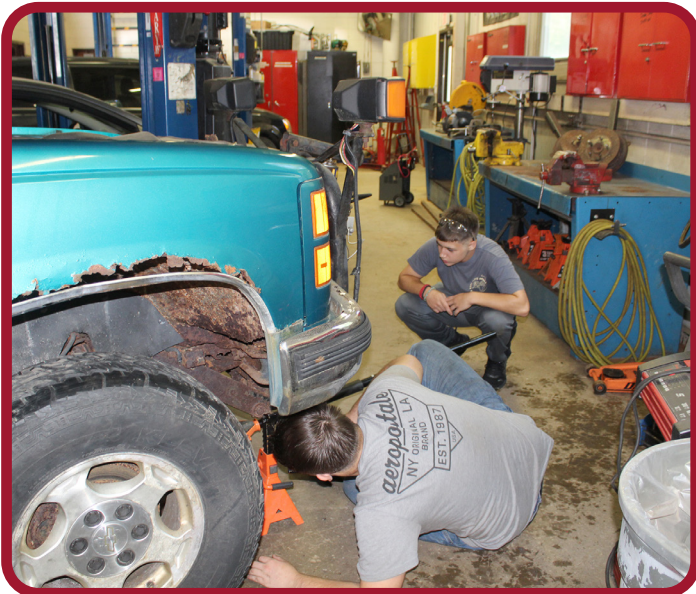
Internships are unpaid and transportation is usually the responsibility of the student, although sometimes it is possible to arrange bus transportation through the home school district.

Participating employers from the Southern Tier include area hospitals, governmental agencies, non-profit agencies and a wide range of private business and industry sites. While not an expectation, students may be offered jobs by their worksite supervisors because of the positive attributes they have displayed while on their internships.

Cooperative Work Experience

Outstanding students may qualify to participate in a paid cooperative work experience as part of their career training. Students will be selected based on skills, attendance, grades and maturity. This experience may occur during the summer or at a time mutually agreed upon by the student, school and employer. An individual training plan will be created with specific academic and technical skill objectives, which will be updated as the need arises. The student will be responsible for keeping a daily log to record skills accomplished during the work experience.

In addition, the Capstone Program is offered at the Bush campus. This program is provided for outstanding seniors in the second half of the final year of their Career and Technical Education program. Qualified students, if given the opportunity to work in their field of training, are encouraged to take this step.





GST BOCES provides cost-effective, quality programs and services through the collaborative efforts of the following component school districts:

Addison • Alfred-Almond • Arkport • Avoca • Bath • Bradford • Campbell-Savona • Canaseraga
Canisteo-Greenwood • Corning-Painted Post • Elmira • Elmira Heights • Hammondsport • Hornell
Horseheads • Jasper-Troupsburg • Odessa-Montour • Prattsburg • Spencer-Van Etten • Watkins Glen • Waverly